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### An on-line **signature** verification system using Hidden Markov Model in polar space

HS Yoon, JY Lee, HS Yang - 2002 - computer.org

... This coordinate system need to **normalization** of **signature** stroke size and **angle variance** always.

To reduce **normalization** error and computing time, we proposed the polar coordinate system ...

**Signature** verification is one of the most important research areas in the field of **person** ...

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### Identity authentication using improved online **signature** verification method

psu.edu [PDF]

A Kholmatov, B Yankoglu - Pattern Recognition Letters, 2005 - Elsevier

... which are used to determine **user** dependent parameters characterizing the **variance** within the ...

the benefits of not resampling significantly outweigh the disadvantage of not **normalizing** for speed,

as ... trajectory: x-y coordinates relative to the first point of **signature** trajectory, the x ...

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### **Signature** verification using global and grid features

Y Qi, BR Hunt - Pattern Recognition, 1994 - Elsevier

... Because distortions due to size-**normalization** tend to be similar to signatures of the same **person**,

it was assumed that these ... This ratio provides an estimation of the discriminating power of each

scale for **signature** verification. ... Let  $\bar{m}_k$  and  $\bar{s}_k$  denote the mean and **variance** of  $d_{ik}$  ...

Cited by 88 - Related articles - All 2 versions

### A comparative study on the consistency of features in on-line **signature** verification

psu.edu [PDF]

H Lei, V Govindaraju - Pattern Recognition Letters, 2005 - Elsevier

... **variance** View the MathML source is an indicator of the consistency of feature i. Inter-class **distance**

**variance** is View ... Given a test **signature** S, the distances between feature i of S and the feature

i of the five ... The maximum **normalized distance** was returned as the similarity output. ...

Cited by 67 - Related articles - All 13 versions

### Gait recognition from time-**normalized** joint-angle trajectories in the walking plane

psu.edu [PDF]

R Tanawongsuwan, A Bobick - 2001 - computer.org

... fix the number of footsteps and time- **normalize** the trajectories by a **variance** compensated time ...

teristics that researchers are investigating and hope to use as a **signature** to recognize ... conversion

to sagittal-plane projected joint **angles**, and the temporal **normalization** that results ...

Cited by 78 - Related articles - All 9 versions

### On-line **signature** recognition based on VQ-DTW

M Faundez-Zanuy - Pattern Recognition, 2007 - Elsevier

... When using dynamic features, some kind of **length normalization** must be done, because different ...

View the MathML source and View the MathML source : (a) Euclidean **distance**: View the ... tool

for signal compression, we propose the following strategy for **signature** recognition: ...

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### An efficient low cost approach for on-line **signature** recognition based on **length normalization** and **fractional distances**

C Vivaracho-Pascual, M Faundez-Zanuy, JM ... - Pattern Recognition, 2009 - Elsevier

... work, however, cost reduction is applied successfully in both feature extraction (**normalized**

signatures are ... of the distances, including the fractional p-norms, in general, these **distance**

measures are ... While the duration between two realizations of a **signature** from the same **user** ...

Cited by 8 - Related articles - All 3 versions

### Java-based Internet biometric authentication system

gmail.ac.uk [PDF]

RAJ Everitt, PW McOwan - IEEE Transactions on Pattern Analysis ..., 2003 - computer.org

... & {\rm{otherwise}};where}}; \overline{S};{\rm{indicates}}\}cr \& {\rm{vector}};{\rm{normalization}}\}.\hfill ...

The technique must obtain two sets of **signature** points (one **angle** set and one **distance** set ... This is

performed with the intention of minimizing within-class **variance** and maximizing between ...

Cited by 18 - Related articles - All 10 versions

### Dynamic **signature** verification system using stroked based features

Y Qu, A El Saddik, A Adler - The 2nd IEEE International ..., 2003 - ieeeexplore.ieee.org

... y accelerations .Number of zero values in the x and y accelerations .Total path **length** .Mean or

**variance** of the ... Figure 4. Stroke-based **normalized** pressure versus time of five genuine signatures

and two forgeries. The 4<sup>th</sup> stroke in each genuine **signature** is the significant stroke ...

Cited by 9 - Related articles - All 6 versions

### [PDF] Offline **signature** verification and identification using **distance** statistics

psu.edu [PDF]

MK Kaiera, S Sirhan, A Xu - ... Journal of Pattern Recognition and Artificial ..., 2004 - Citeseer

... This similarity measure is not **normalized**. ... Results for database A 4.1.1. Verification results Here

the probabilities of the **signature distance** being acceptable as genuine or a forgery are determined. ...

The mean and **variance** of **distance** as a function of the writers is shown in Figs. ...

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